

Abstract:

The invention relates to a method for channel equalization in a receiver, in which a signal is received from a communication channel, the signal containing symbols formed of binary information by phase shift keying. In the receiver, channel estimation is performed to estimate the properties of the communication channel, and samples are taken of the received signal at intervals. In the method, a determined number of samples is examined at the time, and a decision step is taken, in which, to find out the transmitted symbols, bit decisions are computed on the basis of said determined number of samples. After each decision step, it is examined, whether said decision step is to be iterated. Upon iteration of said decision step, at least some of the bit decisions of the preceding decision step are used in addition to the samples under examination at the time, for computing the bit decisions.

Fig. 2a